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dvd remote pause html OR xml	1998	-	2002	Search

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All Results

D Sturgeon

C Boroni

C Howard

D Sitaram

D Nolan

Using DVD Feature Films in the EFL Classroom - group of 4 »
J King - Computer Assisted Language Learning, 2002 - Taylor & Francis
... the closed captions key on a **DVD remote** control or ... teacher wants to skip some scenes,
DVD rewinding and ... such as sound only, silent viewing, **pause**/freeze-frame ...
Cited by 5 - Related Articles - Web Search

An Open Platform for Multimedia Entertainment Systems - group of 14 »
M Lohse, P Slusallek - EUROPRIX Conference, 2002 - graphics.cs.uni-sb.de
... navigation in the local directory structure, **DVD** playback, and ... cording to user input
with a **remote** control ... transitions (eg from "play" to "**pause**") or an ...
Cited by 3 - Related Articles - View as HTML - Web Search

DVD assembly, and associated apparatus, for a convergent device - group of 2 »
TJ Brase, DL Sturgeon, DK Zickefoose, CA Howard, ... - US Patent 6,012,112, 2000 -
Google Patents
... REVERSE FORWARD **PAUSE** FIG. 7 184 ... Operational control over operation of the
DVD assembly
is also provided by way of the **remote**-control, input actuator. ...
Cited by 3 - Related Articles - Web Search

EDITING AND SHARING SYSTEM FOR REWRITABLE DISK MEDIA
JJ FITZPATRICK - EP Patent 1,228,508, 2002 - freepatentsonline.com
... The **pause** is a counterpart to **pause** operation in a VCR, for ... the edit information
can be stored in **remote** computers, storage devices and **DVD** players and ...
Cached - Web Search

Consumer video system for recording and playing video programming
D Trane - 2001 - freepatentsonline.com
... formats such as commonly found on **DVD**, mini-discs ... power supply, user buttons (ie,
channel select, **pause**, arrows, power ... [0024] The external **remote** control device ...
Cached - Web Search

DELETE AND UNDELETE FOR RECORDABLE DVD EDITING
SHU LIN, MA SCHULTZ - EP Patent 1,230,644, 2002 - freepatentsonline.com
... The **pause** is a counterpart to **pause** operation in a VCR ... to edit a bit stream on a
recordable **DVD** disc. ... An EDIT button can be provided on a **remote** control device. ...
Cached - Web Search

Improved playback control methods and arrangements for a DVD player
GF EVANS, A CHAKRABARTI - EP Patent 1,209,681, 2002 - freepatentsonline.com
... user operation (UOP) (eg, play, stop, **pause**, reverse, fast ... may be stored in the **remote**
memory storage ... synchronization issues common to **DVD** player applications ...
Cached - Web Search

Recording apparatus and method with automatic chapter making capability

M GUNJI, H KATAOKA, T YONEYAMA - EP Patent 1,205,933, 2002 - freepatentsonline.com
... 1, characterized in that the pausing director including a **remote** controller having
a **pause** button ... media such as a hard disk and a **DVD** (Digital Versatile ...
Cached - Web Search

Method of menu-driven control of an external connected device in an audio/video apparatus - group of 2 »
JY Yoo, BJ Kim, KS Seo, HS Kim, NS Jo, SI Seo - 2001 - freepatentsonline.com
... or functions of external devices like **DVD** players that ... menu items associated with
playback, stop, **pause**, fast forward ... A method of menu-driven **remote** control of ...
Cached - Web Search

Multicast distribution and control for streaming multimedia - group of 3 »
AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ...,
2001 - ieeexplore.ieee.org
... the media player, including play, **pause**, stop, forward ... Flash movie, the document
contains **HTML** elements and ... actions typically associated with **remote DVD** control ...
Cited by 1 - Related Articles - Web Search

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dvd window pause html OR xml | 1998 | - | 2002 | Search | Ad\ Scl Scl

Scholar All articles <u>Recent articles</u> Results **1 - 10** of about **149** for <u>**dvd**</u> <u>**window**</u> <u>**pause**</u> <u>**html**</u> OR <u>xml</u>. (0.16

All Results

<u>J Simpson</u>

<u>C Boroni</u>

<u>D Sturgeon</u>

<u>D Nolan</u>

<u>C Howard</u>

<u>Web/**DVD**-based multimedia architecture simulator - group of 2 »</u>
E Asai, I Koren, CM Krishna - Frontiers in Education Conference, 2001. 31st Annual, 2001 -
ieeexplore.ieee.org
... This button toggles **pause** and resume. ... 8. Wave **Window** Fig. ... [3] E. Asai, "Multimedia
architecture simulator manual," http://vsp2.ecs.umass.edu/**dvd**/doc/module4 ...
<u>Cited by 1</u> - <u>Related Articles</u> - <u>Web Search</u> - <u>BL Direct</u>

<u>Moving picture playback method and apparatus with the use of windows</u>
T ZETTSU, I TORU - EP Patent 1,229,512, 2002 - freepatentsonline.com
... moving picture data recorded on a hard disk, **DVD**, another recording ... for returning
the shape of the second **window** E32 to a rectangle during **pause** in the ...
<u>Cached</u> - <u>Web Search</u>

<u>An Open Platform for Multimedia Entertainment Systems - group of 14 »</u>
M Lohse, P Slusallek - EUROPRIX Conference, 2002 - graphics.cs.uni-sb.de
... high-level access and of- fers operations like "show symbol **pause** for 2 ... the un- derlying
NMM nodes (eg DVB card access, **DVD** library, etc ... **Windows** Media Player. ...
<u>Cited by 3</u> - <u>Related Articles</u> - <u>View as HTML</u> - <u>Web Search</u>

<u>Multicast distribution and control for streaming multimedia - group of 3 »</u>
AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ...,
2001 - ieeexplore.ieee.org
... for the media player, including play, **pause**, stop, forward ... tag to close the browser
window, revealing the ... actions typically associated with remote **DVD** control. ...
<u>Cited by 1</u> - <u>Related Articles</u> - <u>Web Search</u>

<u>Improved playback control methods and arrangements for a **DVD** player</u>
GF EVANS, A CHAKRABARTI - EP Patent 1,209,681, 2002 - freepatentsonline.com
... only states that the navigator should **pause** until it ... A NULL pointer passed to the
DVD API indicates that ... An example in the Microsoft **Windows** API: handleStart ...
<u>Cached</u> - <u>Web Search</u>

<u>A Multimedia Course Delivery System Combining Web and CD/DVD-Based</u> <u>Technologies - group of 6 »</u>
SR Thampuran - 2002 - ripples.cs.umass.edu
... MANIC which combines Web and CD/**DVD**-based technologies ... During recorded
lectures,
the student can **pause** to post ... are also indices in the video **window** for skipping ...
<u>Cited by 1</u> - <u>Related Articles</u> - <u>View as HTML</u> - <u>Web Search</u>

[BOOK] <u>Just **Xml** - group of 3 »</u>
JE Simpson - 2000 - books.google.com
... Videotape/**DVD** distributors 404 ... need is a plain old text editor—such as **Windows** Note-
pad ... forget about using that nifty new Kanji keyboard: **HTML** makes easyuse ...
<u>Cited by 18</u> - <u>Related Articles</u> - <u>Web Search</u> - <u>Library Search</u>

<u>**DVD** assembly, and associated apparatus, for a convergent device - group of</u>

2 »
TJ Brase, DL Sturgeon, DK Zickefoose, CA Howard, ... - US Patent 6,012,112, 2000 -
Google Patents
... 23, 1997; hhtp://www.c-cube.com/technology/**dvd.html**. ... FORWARD **PAUSE** FIG. 7 ...
302 Page
8. 6,012,112 **DVD** ASSEMBLY, AND ASSOCIATED APPARATUS, FOR A CONVERGENT
DEVICE ...
Cited by 3 - Related Articles - Web Search

[BOOK] Windows XP Pocket Reference - group of 2 »
DA Karp - 2002 - books.google.com
... often repre- sents a CD or **DVD** drive, but it ... limited to three characters; for example,
.**html** is perfectly ... NOTE **Windows** XP's filesystem is case-preserving, but ...
Web Search - Library Search

A paradigm shift! The Internet, the Web, browsers, Java and the future of
computer science education - group of 2 »
CM Boroni, FW Goosey, MT Grinder, RJ Ross - Proceedings of the twenty-ninth SIGCSE
technical symposium ..., 1998 - portal.acm.org
... to that next statement), step without **pause**, and continuous ... complete animator currently
runs on **Windows** 95 and ... future, .a digital video disk-**DVD**) and packaged ...
Cited by 44 - Related Articles - Web Search - BL Direct

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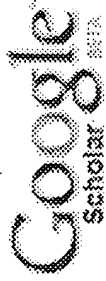
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Scholar Preferences
Scholar Help

Scholar All articles Recent articles

| 1998 | - 2002 |

Results **1 - 10** of about **15** for <u>dvd javascript play pause html OR xml</u>. (0.11 seconds)

All Results
S Katinsky
M Burress
J Furtado
G Burgess
B Edelman

Multicast distribution and control for streaming multimedia - group of 3 »
AC Weaver, JW Van Dyke - Industrial Electronics Society, 2001. IECON'01. The 27th ..., 2001 - ieeexplore.ieee.org
... material was conventional movies on **DVD**, but further ... the media player, including
play, **pause**, stop, forward ... communicates with the client **JavaScript** using the ...
Cited by 1 - Related Articles - Web Search

A Multimedia Course Delivery System Combining Web and CD/**DVD**-Based Technologies - group of 6 »
SR Thampuran - 2002 - ripples.cs.umass.edu
... **MANIC** which combines Web and CD/**DVD**-based technologies. ... a Web-based tool written
in **Javascript** which provides ... recorded lectures, the student can **pause** to post ...
Cited by 1 - Related Articles - View as HTML - Web Search

[BOOK] After Effects 5 Hands on Training
L Weinman, CW Newman - 2002 - books.google.com
... **JavaScript's** Expressions Library ... **HTML** and QuickTime Links ... learners who are looking
for a great tool to make motion graphics for the Web, CD-ROM, **DVD**, video, or ...
Web Search - Library Search

Web application for accessing media streams - group of 2 »
S Katinsky, M Burress, J Furtado - US Patent 6,452,609, 2002 - Google Patents
... source code), http://www.javasoft.com/applets/ archive.beta/Voltage/index.**html**,
pp ... player for playing media objects, a sequencer which displays a **play** list that ...
Cited by 13 - Related Articles - Web Search

Video interfacing and distribution system and method for delivering video programs
D LeComte - 2002 - freepatentsonline.com
... 12, a CD recorder or a **DVD** recorder. ... Time features to support uninterrupted audio
and video **play**. ... Conditional access [0147] **HTML** browser, **JavaScript**, SSL [0148 ...
Cached - Web Search

User interface design for keyframe-based content browsing of digital video - group of 2 »
H Lee - Unpublished doctoral dissertation, Dublin City University, ..., 2001 - compapp.dcu.ie

... producers and various home video entertainment systems such as **DVD**, Web TV, Video on Demand are some of the applications coming up in the near future. ...
Cited by 6 - Related Articles - View as HTML - Web Search

Approaches to university network-based language learning - group of 3 »
G BURNAGE - ReCALL, 2001 - Cambridge Univ Press
... on screen much as a tape would **play** it ... are available: C'eravamo Tanto Amati is a **DVD** version of ... This is a particular problem with **Javascript**/JScript, subtly ...
Cited by 3 - Related Articles - Web Search - BL Direct

DVR Telephone answering device
R Davis, A Yap, M Ficco - 2001 - freepatentsonline.com
... user interaction may be implemented using **JavaScript**(tm ... may also include a PC that can **play** video or ... entertainment system (TV, stereo, tape deck, **DVD** player, CD ...
Cached - Web Search

GRADUATE COLLEGE
H WEN - 2002 - eml.ou.edu
... 4.2.3 **JavaScript**...... ... rewind, rewind, **pause**, stop and **play** buttons ...
Related Articles - View as HTML - Web Search

Automating Software Deployment - group of 6 »
B Jai - 1999 - cs.nyu.edu
... technique that allows the developers to package their applications and provide an "installation trigger" in the form of a piece of **JavaScript** contained in ...
Related Articles - View as HTML - Web Search - Library Search
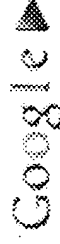
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Tip: Save time by hitting the return key instead of clicking on "search"

Web Developer cheap & discount software - Shareware Shop
All-in-one **DVD** ripping software to rip **DVD** to all popular video and audio formats. ... **XML**
Area is **XML** editor written entirely in **JavaScript**. ...
www.xkee.com/web-authoring/ - 57k - <u>Cached</u> - <u>Similar pages</u>

Apple - Mac OS X - 200+ New Features
DVD Video Color Controls: **Play** your DVDs **play** in the highest quality even in ... play,
pause, stop, fast-forward and rewind — even in full-screen mode. ...
www.apple.com/macosx/newfeatures/over200.**html** - 43k - <u>Cached</u> - <u>Similar pages</u>

pause resources on TechRepublic
Watch near **DVD**-quality video, view video clips in full-screen theater mode, ... has a
comprehensive knowledge of **JavaScript**, **HTML**, XHTML, and **XML** and, ...
search.techrepublic.com.com/search/**pause.html**?&c=1&s=0&m=20&o=1&i=0&t=0 - 53k -
<u>Cached</u> - <u>Similar pages</u>

Linux **DVD** HOWTO: Problems
OMS needs to use headers with **dvd** ioctl support. If things are set up wrong many things
are undeclared and ... The **play/pause**/stop buttons may fail to work. ...
www.bigwebmaster.com/General/Howtos/**DVD**-HOWTO-7.**html** - 16k -
<u>Cached</u> - <u>Similar pages</u>

Flash Professional 8 Video Integration - lynda.com Online Training ...
You are receiving this message because **JavaScript** is disabled in your browser's settings.
... Creating video controls - **play** and **pause**, 11:30, 17.5 MB ...
movielibrary.lynda.com/**html**/modPage.asp?ID=182 - 41k - <u>Cached</u> - <u>Similar pages</u>

Intelligently Software at FilesLand
Intelligently Software - **dvd** ripper pop-up pvr popup stoper web optimizer ... A first class
JavaScript/HTML/XML/XHTML editor with full syntax parsing. ...
www.filesland.com/software/intelligently.**html** - 15k - <u>Cached</u> - <u>Similar pages</u>

[PDF] TUXIA Purple iTV STB Demo User's Guide for s-box
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
The Purple local user interface is a complex **XML/HTML/Javascript** ... In Full screen mode
in the **DVD** feature, sometimes the **Pause/Play** graphic "toggle" ...
www.gctglobal.com/Forum/Stino/Purple_TASTE_UGuide_s-box_V5.pdf - <u>Similar pages</u>

Software Download: **Javascript**
Supports **HTML** 4.0, XHTML 1.0 and 1.1, PHP, Perl (cgi), **XML**, **JavaScript**, CSS, Java and
other ... and a convenient **pause**/resume function so users can start, ...
www.sharewareconnection.com/titles/**javascript**12.htm - 90k - <u>Cached</u> - <u>Similar pages</u>

Apparatus for reproducing AV data in interactive mode, method of ...
A `markup document` is written in markup language such as **XML**, **HTML**, ... In other words,
when the user presses the `**Play/Pause**` key 36 displayed in the ...
www.freepatentsonline.com/20040131334.**html** - 68k - <u>Cached</u> - <u>Similar pages</u>

WDVL: Embedding Video in a Web Page - Page 3

Remember to place the **HTML** page and the ASX file in the same directory. ... fast forward, rewind, **pause** and audio controls such as volume and mute. ...
www.wdvl.com/Multimedia/Windows_Media/media3_2.**html** - 59k - Cached - Similar pages

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SEARCH NOTES

TECHNOLOGY.

Jeff Rule's DYNAMIC HTML DEMOS

- Home
- DHTML Book
- IE4 DHTML
- NS4 DHTML
- IE5 DHTML
- NS5 DHTML
- SMIL Demos

TV Appearances
I made an appearance on ZDTV's Screen Savers show on December 30th, 1998 to discuss Dynamic HTML and to promote the book. The link below goes to my segment of the show, please excuse the encoding I didn't do it.
[see it]

Conferences
I accepted an award at the Real Conference on May 7th, 1999 for the work that Discovery did creating a Live Web Event for the Titanic mission. Skip ahead in the presentation to time point 50:34 to see my acceptance.
[not available]

I spoke at Streaming Media East 99 in New York on June 29th, 1999. The topic of the panel was Advanced Streaming Media Applications. I was representing Discovery Channel Online. My panel took place at 2:45 PM.
[not available]

Convergence Release interviewed me for my feelings on SMIL and Interactive TV. I ended up getting edited down to a short blurry clip.
[not available]

I partcipated in a Panel discussion on 3/6/01 on Multicast delivery of Streaming Video, focusing on satellite delivery. The discussion was webcast by Streaming Media.com.
[hear it]
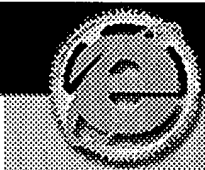
Interviews
I was recently interviewed by the design magazine High Five about the book, Dynamic HTML, my design experience and working in Interactive TV and broadband development. Check the article out at High Five under Profiles.
[read it] April 1999

Magazine Articles
I've written or am currently writing articles for most of the major developer resources on the web. If you'd be interested in having me write an article contact me.

My monthly Lycos Column for their Interactive Zone area.
[read it]

Developer.com IE5 Behaviors Article
[read it]

Macromedia's DHTML Zone IE4 Multimedia Active X Controls
[read it]

Purchase the book
amazon.com
Write a Review

Crosscasting.com
Streaming Media Demos

Winner of
macromedia

Web Review Article IE5 Overview
[read it]

Web Developer's Virtual Library SMIL Development
[read it]

Developer.com WebTV Interactive TV
[read it]

Developer.com Netscape Gecko Release
[read it]

Gamelan.com Java Game development (Jan 27th)
[read it]

Web Developer's Virtual Library SMIL Real Pix
[read it]

Web Developer's Virtual Library SMIL Real Text
[read it]

Web Developer's Virtual Library SMIL Real Audio
[read it]

Web Developer's Virtual Library SMIL Real Video (April 12th)
[read it]

Web Review Intro to SMIL (Series)
[read it]

Web Review Real Pix
[read it]

Web Review Real Text
[read it]

Web Review Real Audio
[read it]

Web Review Real Video
[read it]

Developer.com MP3 Audio (May 3)
[read it]

Developer.com Sun Digital Television
[read it]

Developer.com Interactive Television Set Top Boxes
[read it]

Developer.com Interactive Television Set Top Box Operating Systems
[read it]

Developer.com Java Games (8/3/99)

[read it]

DevX SMIL (12/2/99)
[read it]

Crosscasting.com Embedding Real and Windows Media Players in Web
pages (12/10/00)
[read it]

Crosscasting.com Controlling Real and Windows Media Players with
Javascript (01/6/01)
[read it]

WDVL: Windows Media Part I: Streaming Media (03/5/01)
[read it]

WDVL: Windows Media Part II: Encoding and Serving (03/19/01)
[read it]

WDVL: Windows Media Part III: Embedding Windows Media in Web
Pages (04/5/01)
[read it]

WDVL: Windows Media Part IV: Javascript Control of Windows Media
(05/25/01)
[read it]

Streaming Media Magazine: SMIL Slide Shows Printed on 03/19/01

Streaming Media Website: Windows Media Slide Show
[read it]

Home Entertainment Networks
[read it]

Home | Login | Logout | Access Information | Alerts | Sitemap | Help
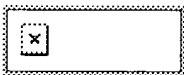
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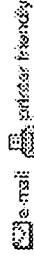
Multicast distribution and control for streaming multimedia

Weaver, A.C., Van Dyke, J.W.
Dept. of Comput. Sci., Virginia Univ., Charlottesville, VA;

This paper appears in: **Industrial Electronics Society, 2001. IECON '01. The 27th Annual Conference of the IEEE**
Publication Date: 2001
Volume: 3, On page(s): 1806-1809 vol.3
Meeting Date: 11/29/2001 - 12/02/2001
Location: Denver, CO, USA
ISBN: 0-7803-7108-9
References Cited: 11
INSPEC Accession Number: 7306761
Digital Object Identifier: 10.1109/IECON.2001.975564
Posted online: 2002-08-06 23:58:27.0

Abstract
Modern industrial networks are increasingly using multimedia to support online broadcast of training videos, educational material, and recorded company announcements. When the material is to be viewed by groups of people, unicast distribution increases network load proportionally to the number of viewers, while multicast distribution creates constant network load but eliminates an individual's ability to control the stream. We introduce a hybrid platform for multimedia distribution whose network and server load is independent of the number of viewers, yet retains individual stream control. We have built a proof-of-concept system based upon commercial PC technology that supports the simultaneous distribution of multiple copies of multiple multimedia rules. We show how web programming using JavaScript, ActiveX controls, ASP, and HTML can be incorporated with commercial, off-the-shelf media servers and media players to create an Internet multimedia server with constant network and server load characteristics

Index Terms
Inspec

Controlled Indexing
hypermedia markup languages   multicast communication   multimedia communication
telecommunication cables

Non-controlled Indexing

Special Offer:	Experience Windows Vista on Your PC Official Site: Find Special Offers.

Data Backup Services:

AmeriVault: Data Backup

SyncWeb: Data Backup Services

Data Backup Services: Rackspace

Networking Hardware:

Network Liquidators: Networking Hardware

Networking Hardware: L-com Connectivity

Digi-Key: Search for Networking Hardware

WEB DEVELOPER'S™ ‹VIRTUAL LIBRARY›

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Discussion Forums
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Software Reviews
Editors,Others...

Top100
JavaScript Tutorials, ...

Tutorials
ASP, CSS, Databases...

Jobs

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Domains, E-Commerce, ...

WDVL Resources
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Discussion Lists, Top 100,...

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Windows Media: JavaScript Buttons

Jeff Rule

June 11, 2001

Embedding the player Microsoft came up with is a good first step to getting video running in the page. However, let's face it, Microsoft isn't exactly a design shop and the default control buttons they give you have all the flair of a 1975 Sylvania Superset TV knob. It cost you millions of dollars and thousands of lives to get your site looking the way you want. The last thing you're about to do is screw it up with some dull gray buttons! Fortunately, Microsoft, realizing it's own limitations, has allowed us to use our own graphics to control the video.

Getting control of the graphic images for the Windows Media Player is only the first step. JavaScript allows you to go far beyond this and make the video interact with other elements on the page. I believe this is the true power of streaming video. If you put streaming video up against TV its going to lose every time, the quality just isn't there yet, and who wants to sit at their desk and watch video. The power of streaming is unleashed when video is made part of a

AVAYA ▶ VoIP Access O‹

Whitepaper: Understanding VoIP—Leveraging Te‹ for a Competitive Edge This white paper shows how c‹ your traditional voice and data networks can save money ; efficiency and productivity throughout your organization—‹ takes to remain competitive in today's marketplace. **>**

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Whitepaper: Business Communications Applicati‹ Network Business Communications Applications are qui‹ becoming a requirement for businesses seeking competiti‹

SEARCH NOTES

- ☐ Microsoft SQL Server
- ☐ Daily Backup
- ☐ Dedicated Servers
- ☐ Streaming Audio/Video
- ☐ 24-hour Support

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Merchant Accounts
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Internet Security
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Televisions
Compare Prices
Business Lists
Domain Registration
Web Hosting

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JustSMIL
ScriptSearch
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WebDeveloper.com
WebReference.com
XMLFiles.com

Internet.com

Developer
International
Internet Lists
Internet News
Internet Resources

video application where the video is complimented by elements such as synchronized slides, chat, user feedback and the ability to pause the video while you explore something else. These are things that Interactive TV (ITV) is still a long way from doing. Believe me, I developed ITV for Discovery Channel and ITV is not going to be catching up to the Web soon in this regard, despite the hype.

Streaming Media Applications

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True searchable video based on speech recognition remains a future technology.

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Windows Media: JavaScript Buttons

Jeff Rule

June 11, 2001

Embedding the player Microsoft came up with is a good first step to getting video running in the page. However, let's face it, Microsoft isn't exactly a design shop and the default control buttons they give you have all the flair of a 1975 Sylvania Superset TV knob. It cost you millions of dollars and thousands of lives to get your site looking the way you want. The last thing you're about to do is screw it up with some dull gray buttons! Fortunately, Microsoft, realizing it's own limitations, has allowed us to use our own graphics to control the video.

Getting control of the graphic images for the Windows Media Player is only the first step. JavaScript allows you to go far beyond this and make the video interact with other elements on the page. I believe this is the true power of streaming video. If you put streaming video up against TV its going to lose every time, the quality just isn't there yet, and who wants to sit at their desk and watch video. The power of streaming is unleashed when video is made part of a

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The Basics
- Page 2

Jeff Rule

June 11, 2001

With all the great interactivity available to Windows Media let's start with the basics. As I mentioned before, Web page developers don't always want to be stuck with Microsoft's choice of buttons. The first step is using JavaScript to control the embedded Windows Media player using form style buttons. These have the advantage of being placed anywhere on the page and controlling the video, while the Microsoft controls must be placed directly below the video.

This will work with Netscape 4+ and IE 4+. Document Object Model (DOM) is a fancy term used to describe how elements on a Web page are addressed. This code embeds the video in the Web page. You will need to substitute your own video for `yourfile.asx` that I have used as a placeholder. Notice that we have turned off the Windows Media Player controls by setting `ShowControls` equal to false. Place the following code in the `<body>` of the document.

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```
<OBJECT ID="WinMedia" width=160 height=120
classid="CLSID:22D6F312-B0F6-11D0-94AB-0080C74C7E95"
codebase="http://activex.microsoft.com/activex/controls/
mplayer/en/nsmp2inf.cab#Version=5,1,52,701" standby=
"Loading Microsoft® Windows® Media Player components..."
type="application/x-oleobject">
<PARAM NAME="FileName" VALUE="yourfile.asx">
<PARAM NAME="AutoStart" Value="True">
<PARAM NAME="ShowControls" VALUE="False">
<PARAM NAME="ShowStatusBar" VALUE="True">
<EMBED type="application/x-mplayer2"
```

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```
pluginspage="http://www.mic
MediaPlayer/" SRC="yourfile
autostart=1 width=160 heigh
ShowControls=false>
</EMBED>

</OBJECT>
```

[*Lines 1-6 above are one line as are lines 11-15. They have been split for formatting purposes.*]

Once we have the video embedded in the Web page we are ready to use our form style buttons to control the video. The following code creates three buttons, Play, Pause and Stop. Place the following in the <body> of the document below the embedded video described above.

```
<FORM NAME="PlayerButtons">
<INPUT NAME="Playbtn" TYPE=
onclick="document.WinMedia.
<INPUT NAME="Pausebtn" TYPE
onclick="document.WinMedia.
<INPUT NAME="Stopbtn" TYPE=
onclick="document.WinMedia.
</FORM>
```

[*Lines 2 and 3 above are one line as are lines 4 and 5 and 6 and 7. They have been split for formatting purposes.*]

These bits of JavaScript code are being used to control the Windows Media Player through Methods that are built into the WMP. The main methods that are exposed are:

Operation	Method
Play	**MediaPlayer.Play();**
Pause	**MediaPlayer.Pause();**
Stop	**MediaPlayer.Stop();**
Previous Track	**MediaPlayer.Previous();**
Fast Reverse	**MediaPlayer.FastReverse();**
Fast Forward	**MediaPlayer.FastForward();**
Next Track	**MediaPlayer.Next();**

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developer to build the video into the Web page and create an integrated application. While Windows Media
you control over the player when in standalone mode, these skins can't be used to modify an embedded vide
Fortunately, the code isn't much harder to use your own graphics.

```
<A HREF="javascript:docum
<IMG SRC="play.gif" WIDTH
ALT="PLAY BUTTON"></A>

<A HREF="javascript:docum
<IMG SRC="pause.gif" WIDT
ALT="PAUSE BUTTON"> </A>

<A HREF="javascript:docum
<IMG SRC="stop.gif" WIDTH
ALT="STOP BUTTON"> </A>
```

[*Lines 1-3 above are one line as are 5-7 and 9-11. They have been split for formatting purposes.*]

Controlling the Windows Media Player with JavaScript is really very easy. Where it gets difficult is when you start synchronizing video with other elements on the page, such as turning graphics into slide shows.

◀ Windows Media: JavaScript Buttons
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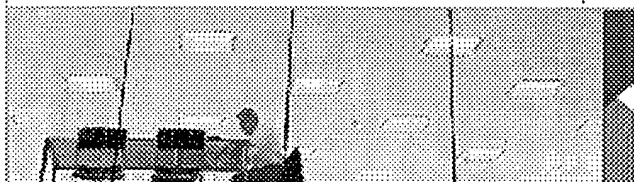
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Synchronized Content - Page 3

Jeff Rule

June 11, 2001

Creating code that synchronizes slides along with media have been around since RealAudio 3. However, doing it easily is rather new. Several programs have been developed recently that make it much easier.

Windows Media On Demand Producer

This tool is free from Microsoft and can be downloaded at their site. It was developed in conjunction with Sonic Foundry and is a lightweight version of their Vegas Video production tool.

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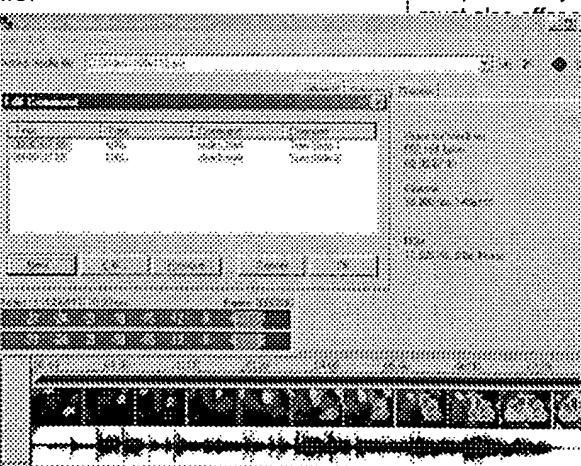
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a fairly robust tool that can do a lot more than just add URLs to the stream. It works with your video capture card, if you have one on your computer, to capture video directly into the program or you can load in WAV files or AVI video files as we are doing. The scripting you create, including the Commands, can be imported and exported between files making it easy to reuse. Many templates also ship with WMOP that allow you to encode at common speeds. If you don't like the templates you can also modify them.

Once you have an AVI file or other appropriate source file opened in WMOP, you can add Commands at time points throughout the program. The URL command is used and the Parameter is set to the name of the HTML page containing the various slides you want to display. When you are done entering URL commands choose the Publish action under the File menu. This will give you a choice of several prepared Templates. To create a slide show choose the (URL Flip) Slide Show selection and the program will create the slide show for you.

WMOP is a great free tool, but it is limited in the design and layout of the slide show. To create a more robust slide show you will need to go with a third party tool.

SofTV Products

I was recently introduced to these tool for creating both on- demand and live synchronized presentations on without additional plugins. On-demand production of synchronized content is difficult, but similar live produc harder.

Softv Author

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Softv Author allows you to do visual lay and graphics on the page, including dra resizing of the elements of the page.

Once the pages are visually laid out the published to a Web site by pressing a s button. The dynamic HTML which is us pages is written by the program and is c both Internet Explorer 4 and Netscape Real Media and Windows Media.

Softv PresenterLive

This tool is Softv's most interesting. It al produce live webcasts with synchronize may sound simple, but in reality injectin commands into the Windows Media En is very difficult.

Use the Author software to layout the V create the template. Then open the Pov presentation into PresenterLive. The sli converted from PowerPoint to JPG files end users browser to be precached. Another program called LiveSync is used by the producer to control sli

This program links to yet another program — TriggerMaker — which actually talks to the Windows Media Er injects the page turn commands into the video stream.

At the client end, the triggers are received by a small Java program running in the Web page. This Java pro the page turns on the client end.

SofTV has produced a suite of programs that are on the leading edge of technology. They allow you to repli functionality that until now would have taken an expensive service provider to produce.

These programs are available at Softv.net.

Conclusion

Windows Media reaches it's full potential when it is combined with other elements on the Web page to prodi video applications. As bandwidth increases on the Web you will start to see better video applications aimed weather and news broadcasts. Yahoo FinanceVision is a good example of a first attempt at this new medit

Over time, with the creation of new tools such as SofTV, these capabilities will trickle down into the hands o trainers and individual users. That's when things will start getting interesting.

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Windows Media Playback in a Web Page

Jeff Rule

May 7, 2001

I've always wanted to do Interactive TV (ITV), ever since I took my first crayon and drew on the television. Little did my parents realize during all the shouting that I was taking a first step in building my resume. Interactive TV has been slow to develop, but in the meantime another screen came to be popular in homes, the computer.

Let's face it, watching video on the computer — even at 300kbps — is still an experience only a hard core techie could love. It isn't going to beat out television. Where things get interesting is when the video gets combined with other information or applications that enhance or allow us to manipulate the video.

In this article, I'm going to show you how to include Windows Media video in your Web pages. This is your first step to becoming an Interactive TV programmer.

Putting Video Online

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Before you start creating interactive video on the Web you need a place to host your video. One thing that all articles seem to neglect is how the average person gets access to a video server at a reasonable price.

If you have a copy of Windows Media 2000 Server you can install Windows Media Services yourself and you can run all your testing locally. But what if you're the average user with a single computer and slow Internet access? What you need is someone else to host your video at a price that isn't going to tax your depleted tech stock portfolio.

Its called Playstream

You can get a free site for 15 days and then rates are as low as $4.99/month after that. I swear, I'm not associated with them. They provide online statistics and allow you to grow to be as big as you want to be. If you come up with some content that is particularly compelling then they can even set up a pay-per-view service. Once you get your video online your ready to become an ITV programmer.

Launching the Player

Video files for Windows Media consist of two files. The main video file (.ASF) and a "pointer" file (.ASX or .WVX) that you use to point to the video server. For those of you who are familiar with Real Video the relationship is the same as (.RM) to the RAM file.

The ASX and the WVX files are the exact same thing and contain the same information. WVX is simply wha decided to call the ASX file in Windows Media 7. To ensure backward compatibility I would continue to us A this article will refer to ASX files.

	Pointer File	Media File
Windows Media	asx or .wvx	.asf, wmv, wma
Real Media	.ram	.rm, ra

The simplest way to get video into your Web page is to place a link to the "pointer" file in your page. The poi either .wvx or .asx, resides on your *Web* server with the HTML, *not* on the streaming server.

This link will appear exactly like any other link on the page, but instead of pointing to a new Web page it poi file. Once clicked on the browser is smart enough to launch the Windows Media Player as a stand-alone apj play the video.

Simple ASX Files

First, let's take a look at a simple ASX file that will serve to launch your video. In the next section I will discu: based language of the ASX file and show how it can control the video file.

Place this in your HTML:
```
<A HREF=" yourfile.asx">Link to Streaming Content</A>
```

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10. Authoring JavaScript

Domain Name Lookup
Search to find the availability of a domain name. Just complete domain name with extension (.com, .net, .e

Lookup

Se Arch Notes

Here is the file *yourfile.asx*. This should go in the same directory as the HTML file that points to it. Create it i your HTML editing program and save it as a normal text file with the .asx extension.

```
<ASX version = "3.0">
  <ENTRY>
    <REF HREF =
    "mms://win.playstream.com/jrule/video/sample.asf" />
  </ENTRY>
</ASX>
```

It's that simple. Now remember this doesn't embed the video in the page; it launches the standalone player. how to embed the video later on.

Complex ASX Files - Page 2 ▶

Up to => Home / Multimedia / Windows_Media

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Complex ASX Files - Page 2

Jeff Rule
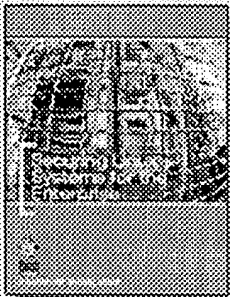
May 7, 2001

For those of you who only need your ASX file to pop up a video you can skip this section and go right on to embedding the video. For others that would like to learn about playlists, titles, copyright info, advertising insertion, banner ads and server failure protection please keep reading.

It should be noted that if you included any info about the title, copyright, clip names or author when encoding the file the information encoded with the file will override the metadata in the ASX file.

ASX metafiles are written using XML syntax. Let's take a look at a complex ASX file and then we can take it apart and examine the individual pieces.

```
<ASX version = "3.0">
  <TITLE>Title of the Show</TITLE>
  <ABSTRACT>This text will show
  in the Properties dialog box</ABSTRACT>
  <AUTHOR>Author</AUTHOR>
  <COPYRIGHT>2001 by Company</COPYRIGHT>
  <Entry>
    <Ref href = "mms://VideoServername/video.asf" />
    <Banner href="http://Servername/Path/Banner1.gif">
     <MoreInfo
     href="http://www.microsoft...
     <Abstract>Description of
    </Banner>
  </Entry>
  <Entry>
    <Title>Markers Discussion</Title>
    <Copyright>2001 WDVL</Copyright>
    <Logo href = "http://servername/Path/Banner2.gif"
    Style = "ICON" />
```
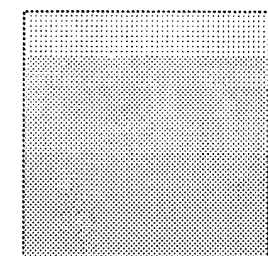
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```
<MoreInfo
  href = "http://www.microsoft.com/windows/windowsmedia">
  </MoreInfo>
<Ref href = "mms://VideoServername/video3.asf" />
<Ref href = "http:// VideoServername/video3.asf " />
</Entry>
</ASX>
```

Elements Defined:

<TITLE> The title element shows up as Show: in the Windows Media Player when it is in "Classic Compact Mode". It should be noted that many of the elements do not display in "Classic Compact Mode".

<ABSTRACT> The abstract appears as a Tooltip when you leave the cursor over the Show: title for a few seconds. The abstract tag can be used to describe the TITLE or it can be used to describe a CLIP.

<AUTHOR> The author tag is reserved for the name of the person creating the file. It can also be used to contain additional information about the clip. It also appears under Properties.

<COPYRIGHT> The Copyright is a text string that shows up in the player window. It also appears under Properties.

<ENTRY> The Entry element is the basic element of the ASX metafile. The Entry element defines a single piece of content that will appear in the player. Multiple Entry elements can be used, multiple Entries are each a Clip.

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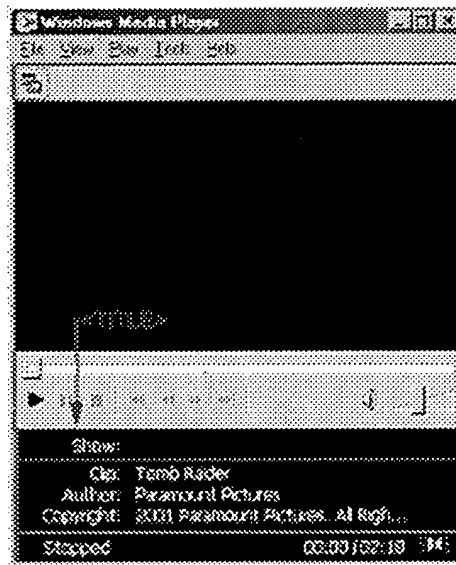▶ Visit the Avaya VoIP Access Cent

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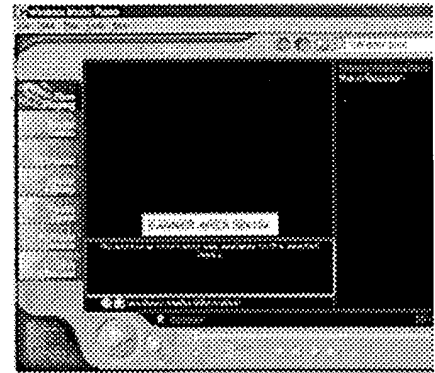10. Authoring JavaScript

Domain Name Lookup

Search to find the availability of a domain name. Just complete domain name with extension (.com, .net, .e

Lookup

Multiple Entries can be placed in order to create a Playlist. These elements will play sequentially.

```
<Entry><Ref href = "mms://Server/content/title1.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title2.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title3.asf" /></Entry>
<Entry><Ref href = "mms://Server/content/title4.asf" /></Entry>
```

<BANNER> With this element you can place an advertising banner (192 pixels x 34 pixels) image on the pla bottom of the video display area in Full Mode. You can then add a hyperlink to the banner with a child eleme

<MORE INFO HREF> The more info tag contains a URL link so that when the banner is clicked a browser w launched and the user is taken to the URL. The MORE INFO tag can also be used in conjunction with the El that when the video clip is clicked on it launches a browser.

<LOGO> This element can place a small (16 pixels x 16 pixels) GIF image next to the Title of the Show, or n status on Windows Media Player when in Full Mode. This graphic replaces the icon next to the Show title wh the main area of the metafile, and it replaces the graphic next to the Clip title when placed within an element

SEARCH WORKS

Classic Compact Mode

Full Mode

Windows Media 7 is considerably more customizable than earlier players. Some modifications can be made using the ASX files. Even more modifications can be made using Windows Media's new "skin" features. Ski you to modify the look and feel of the player window using a XML based language.

Future generations of Windows Media will allow the developer greater control over the look and feel of the p as inserting need tags that increase advertising and ad insertion opportunities. Microsoft is very eager to he come up with new business models that allow them to make money with their video assets. Microsoft will of small percentage off the top.

◄ Windows Media Playback in a Web Page
Windows Media Playback in a Web Page
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Embedding Video in a Web Page - Page 3

Jeff Rule

May 7, 2001

Embedding video into a Web page is fairly easy to do and offers many more opportunities to customize the user experience. When a video is playing by itself in a Windows Media Player it is no different than watching a TV program, except the video reception is much worse and its on demand.

When the video is embedded in a Web page all sorts of possibilities exist to enhance the video with other Web media types and create a true video application. Maybe you would like to give the user the ability to jump around in the video by chapters (much like a DVD), or maybe you would like to have a diagram that loads to offer more detail about a product, or maybe you just want to load an advertisement during the program so that you have a business model.

Embedding the video into a Web page allows you to create a true interactive video application that takes the passive TV viewing experience and makes it interactive and user customizable.

Create the ASX file

Just as before, we need to create the ASX for Windows. In fact you can use the simple one you created earlier.

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Windows Media Embedding

Here is the code you'll need to place into your HTML page. Remember to place the HTML page and the ASX file in the same directory.

```
<OBJECT
  ID="WinMedia"
  classid="CLSID:22d6f312-b0f6...
  CODEBASE= "http://activex.m...
  controls/mplayer/en/nsmp2in...
  width=160 height=120 standby...
  Windows Media Player compone...
  /x-oleobject">
<PARAM NAME="FileName"  VALUE...
<PARAM NAME="AutoStart" Valu...
<PARAM NAME="ShowControls" V...
<Embed type="application/x-m...
    pluginspage=
    "http://www.microsoft.com/Windows/MediaPlayer/"
    src="yourfile.asx"
    Name=MediaPlayer
    AutoStart=0
    Width=160
    Height=120
    autostart=1
    ShowControls=1
  </embed>
</OBJECT>
```

[Lines 4 through 8 above are one line. They have been split for formatting purposes.]

Let's take a look at this big chunk of code. The object tag at the start refers to an Active X object that Internet Explorer uses to play the video. The ID tag names the video. Later this will help us control it with JavaScript. Name it anything you like. Don't worry about the long classid number, it's a number Microsoft uses to make sure every Active X control is unique. The only part you change in the first part is the width and height of the video.

Good Sizes

Size	Bitrate
Width=160 height=120	Use this for 28.8 kbps
Width=240 height=160	Use this for 56 kbps video
Width=320 height=240	Use this for 100kbps or higher. Consider full screen video for 300 higher.

The <param> names are where you'll make your changes. There are a huge number of possible parameter: used to modify the Windows Media Player. First, we will look at the ones that are essential to embed the vid and get it playing. Later we'll look at the full list. Here's a short definition of the one's used here.

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<param> Name Definition

<param> name	Definition
FileName	Points to the .asx file, you can place the asx files in directories just like a g
AutoStart	Starts the video playing automatically when the page loads, if set to "false" button must be pressed to start playback
ShowControls	Shows the basic controls for starting, stopping, fast forward, rewind, pause controls such as volume and mute.

The final part of the code covers backwards compatibility with Netscape. If you are only using this to display Explorer then the whole <embed> part of the code can be removed. Netscape uses the <embed> tag to pla the Web page. Netscape must have the Windows Media plug-in installed in order to play the video. The plug automatically when Windows Media Player is installed on a computer using Netscape. Notice that you have param names here. Netscape uses "1" for True and "0" for "False.

◀ Complex ASX Files - Page 2
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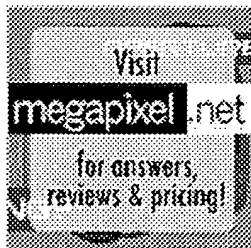
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Parameters - Page 4

Jeff Rule

May 7, 2001

This is all you need in order to do a simple embed of Windows Media into a Web page and have it playback in Internet Explorer or Netscape. However, Microsoft offers many other parameters. There are too many to explain in the course of this article, but I've listed some of them below and the parameter names are fairly self-explanatory. Full details on the parameters can be found at Windows Media SDK.

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```
<OBJECT
 ID="MediaPlayer" classid="C
  -b0f6-11d0-94ab-0080c74c7e
  CODEBASE= "http://activex.
  controls/mplayer/en/nsmp2i
  width=160 height=120 standb
  Media Player components...
  type="application/x-oleobj
<PARAM NAME="AudioStream" VA
<PARAM NAME="AutoSize" VALUE=
<PARAM NAME="AutoStart" VALU
<PARAM NAME="AnimationAtStar
<PARAM NAME="AllowScan" VALU
<PARAM NAME="AllowChangeDisp
<PARAM NAME="AutoRewind" VAL
<PARAM NAME="Balance" VALUE=
<PARAM NAME="BaseURL" VALUE=
<PARAM NAME="BufferingTime"
<PARAM NAME="CaptioningID" V
<PARAM NAME="ClickToPlay" VA
<PARAM NAME="CursorType" VAL
<PARAM NAME="CurrentPosition
<PARAM NAME="CurrentMarker"
<PARAM NAME="DefaultFrame" V
<PARAM NAME="DisplayBackColo
<PARAM NAME="DisplayForeColo
<PARAM NAME="DisplayMode" VA
```

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```
<PARAM NAME="DisplaySize" VALUE="2">
<PARAM NAME="Enabled" VALUE="-1">
<PARAM NAME="EnableContextMenu" VALUE="-1">
<PARAM NAME="EnablePositionControls" VALUE="-1">
<PARAM NAME="EnableFullScreenControls" VALUE="0">
<PARAM NAME="EnableTracker" VALUE="-1">
<PARAM NAME="Filename" VALUE="yourfile.asx">
<PARAM NAME="InvokeURLs" VALUE="-1">
<PARAM NAME="Language" VALUE="-1">
<PARAM NAME="Mute" VALUE="0">
<PARAM NAME="PlayCount" VALUE="1">
<PARAM NAME="PreviewMode" VALUE="0">
<PARAM NAME="Rate" VALUE="1">
<PARAM NAME="SAMILang" VALUE="">
<PARAM NAME="SAMIStyle" VALUE="">
<PARAM NAME="SAMIFileName" VALUE="">
<PARAM NAME="SelectionStart" VALUE="0">
<PARAM NAME="SelectionEnd" VALUE="0">
<PARAM NAME="SendOpenStateChangeEvents" VALUE="0">
<PARAM NAME="SendWarningEvents" VALUE="0">
<PARAM NAME="SendErrorEvents" VALUE="0">
<PARAM NAME="SendKeyboardEvents" VALUE="0">
<PARAM NAME="SendMouseClickEvents" VALUE="0">
<PARAM NAME="SendMouseMoveEvents" VALUE="0">
<PARAM NAME="SendPlayStateChangeEvents" VALUE="-1">
<PARAM NAME="ShowCaptioning" VALUE="0">
<PARAM NAME="ShowControls" VALUE="-1">
<PARAM NAME="ShowAudioControls" VALUE="-1">
<PARAM NAME="ShowDisplay" VALUE="0">
<PARAM NAME="ShowGotoBar" VALUE="0">
<PARAM NAME="ShowPositionControls" VALUE="-1">
<PARAM NAME="ShowStatusBar" VALUE="-1">
<PARAM NAME="ShowTracker" VALUE="-1">
<PARAM NAME="TransparentAtStart" VALUE="0">
<PARAM NAME="VideoBorderWidth" VALUE="5">
<PARAM NAME="VideoBorderColor" VALUE="4227327">
<PARAM NAME="VideoBorder3D" VALUE="0">
<PARAM NAME="Volume" VALUE="-150">
<PARAM NAME="WindowlessVideo" VALUE="0">
</OBJECT>
```

[Lines 2 and 3 above are one line as are lines 4-8. They have been split for formatting purposes.]

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Conclusion

Microsoft has made it very easy to launch Windows Media in the standalone Windows Media Player or to en in a Web page. While stand-alone video can be useful, the true value comes when the video is embedded in and can be surrounded by supporting material that takes video from being an independent media type to bei video application. In the next article, I will show you how to further integrate Windows Media into an applicati and the surrounding material can truly interact.

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